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Can you get servers designed to manage and grow increasing front-end transactions with compelling price and performance?

Yes. Intel® Xeon™ processor-based servers with 533 MHz system bus offer outstanding value, versatility, and performance to meet all your growing application needs of the presentation layer and the front-end.

Intel® Xeon™ processors enable businesses like yours to create affordable, high-performing solutions based on scalable, industry-standard software and hardware through higher throughput, support for multithreaded operations, increased response times, and enterprise-class reliability, availability and serviceability.

Versatile server platforms based on the Intel Xeon processor deliver optimum compute power, outstanding value and flexibility for departmental servers, Internet infrastructure, mail servers, and Small & Medium-sized Business (SMB) server applications.

Enhanced server platforms based on the Intel Xeon processor provide outstanding performance with headroom for peak server workloads resulting in faster response times, support for more users, and enhanced scalability.

Dependable server platforms based on the Intel Xeon processor offer reliability features thereby minimizing server downtime. Systems based on Intel Xeon processors continue to provide stability to server platforms that support the widest range of proven and available solutions.



Now is the ideal time to upgrade your existing servers to servers based on Intel® Xeon™ processors.



Powerful and cost-effective
servers to run the broadest
range of applications.

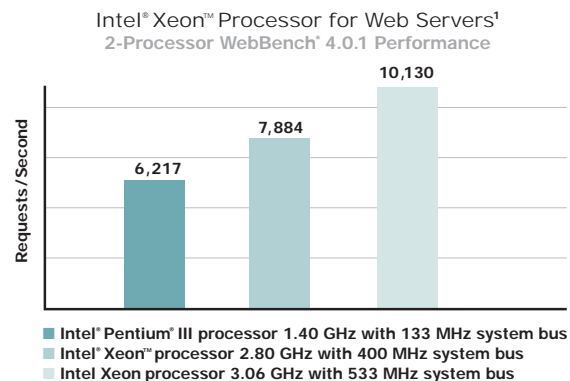
Outstanding Performance for Dual-processor (DP)-based Servers

Whether you are running data-intensive applications, delivering Web content or streaming media, the Intel Xeon processor combined with the new Intel® E7501 chipset can provide outstanding throughput and headroom for peak server workloads.

Designed specifically for multithreaded applications in multi-tasking environments, the Intel Xeon processor family is complemented by the Intel® NetBurst™ microarchitecture, a foundation of both the Intel Xeon processor and the Intel® Pentium® 4 processor, and Hyper-Threading Technology. With Hyper-Threading Technology, an on-processor innovation from Intel, your applications for dual-processor (DP)-based servers can execute more than one thread per processor,

increasing the throughput of your server applications and enabling you to optimally scale with rapid growth in your Internet infrastructure and mail servers.

A winning combination of Intel NetBurst microarchitecture and Hyper-Threading Technology enables outstanding performance for dual-processing server applications compared to previous generation servers. The accompanying graphs depict the progressive improvements in performance from one generation of processor to the next, suggesting a compelling need for a transition from Intel® Pentium® III processor-based servers.

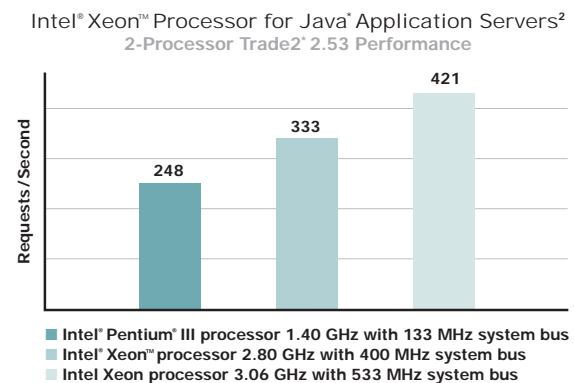


Higher Web Transaction Throughput
Intel Xeon processor-based servers with 533 MHz system bus enable simultaneous processing of up to 62% more simultaneous Web requests than Intel® Pentium® III processor-based servers (1.40 GHz).

1. System Configurations

Source: eTesting Labs (January 2003)

1. Intel® Pentium® III processor 1.40 GHz with 512KB L2 cache, ServerWorks® Enterprise Serverset® III HE-SL chipset-based server board, 2GB PC133 SDRAM, Microsoft Windows® Server 2003, Enterprise Edition, Intel® PRO/1000 Gigabit Server adapter, AMI 438 MegaRAID® controller v1.48 16MB EDO RAM-Dell PowerVault® 210S disk array.
2. Intel® Xeon™ processor 2.80 GHz with 512KB L2 cache, Intel® Server Board SE7500WV2 with Intel® E7500 chipset, 2GB DDR, Microsoft Windows® Server 2003, Enterprise Edition, Intel® PRO/1000 Gigabit Server adapter, AMI 438 MegaRAID® controller v1.48 16MB EDO RAM-Dell PowerVault® 210S disk array.
3. Intel® Xeon™ processor 3.06 GHz with 512KB L2 cache, Intel® Server Board SE7501WV2 with Intel® E7501 chipset, 2GB DDR, Microsoft Windows® Server 2003, Enterprise Edition, Intel® PRO/1000 Gigabit Server adapter, AMI 438 MegaRAID® controller v1.48 16MB EDO RAM-Dell PowerVault® 210S disk array.



Increased Number of Real-time Information Retrievals

This Java®-based benchmark specifically measures the response times for real-time stock quote retrievals for online trading. Look at the 69% performance improvement compared to servers based on Intel® Pentium® III processors running at 1.40 GHz.

2. System Configurations

Source: eTesting Labs (January 2003)

1. Intel® Pentium® III processor 1.40 GHz with 512KB L2 cache, ServerWorks® Enterprise Serverset® III HE-SL chipset-based server board, 2GB PC133 SDRAM, Microsoft Windows® 2000 Server board, Intel® PRO/1000 Gigabit Server adapter, AMI 471 MegaRAID® controller v3.12 64MB EDO RAM-Dell PowerVault® 211S disk array.
2. Intel® Xeon™ processor 2.80 GHz with 512KB L2 cache, Intel® Server Board SE7500WV2 with Intel® E7500 chipset, 2GB DDR, Microsoft Windows® 2000 Server SP2, Intel® PRO/1000 Gigabit Server adapter, AMI 471 MegaRAID® controller v3.12 64MB EDO RAM-Dell PowerVault® 211S disk array.
3. Intel® Xeon™ processor 3.06 GHz with 512KB L2 cache, Intel® Server Board SE7501WV2 with Intel® E7501 chipset, 2GB DDR, Microsoft Windows® 2000 Server SP2, Intel® PRO/1000 Gigabit Server adapter, AMI 471 MegaRAID® controller v3.12 64MB EDO RAM-Dell PowerVault® 211S disk array.

Cost-effective Scalability for Future Growth

In today's fast-paced business environment, neither customers nor competitors wait. A competitive yet cost-effective platform that can grow to meet your evolving processing and workload requirement is needed. By scaling from one to two processors, an Intel Xeon processor-based server provides up to a 55% performance gain – for relatively small incremental investment. This additional performance coupled with an industry-leading system bus at 533 MHz, enhanced cache sizes and Hyper-Threading Technology, makes it possible for more users to retrieve and process the information they're seeking – faster and more efficiently.

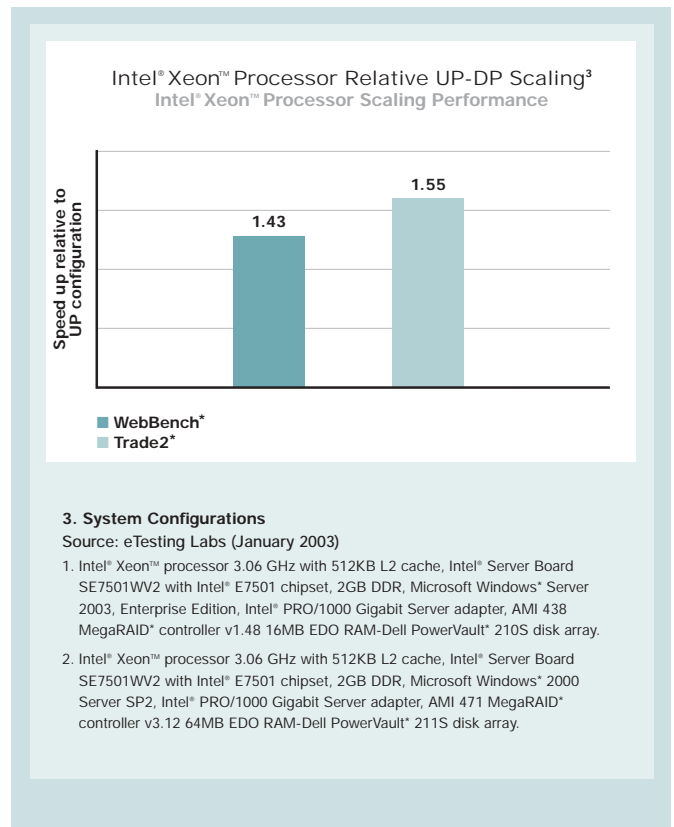
They easily integrate into existing infrastructures and support most major operating systems, industry standard server hardware and business-critical or e-Business applications.

Outstanding Value and Value Investment Protection

Intel Xeon processor-based servers benefit from broad industry support for Intel® architecture-based systems through the Intel® e-Business Network (leBN). leBN consists of thousands of hardware and software vendors that are focused on developing innovative and varied solutions based on Intel architecture.

For more details about leBN, please visit:

<http://www.intel.com/eBusiness/affiliates/index.htm>



Intel® Xeon™ Processor

Key Design features and benefits for servers

Features	Benefits
Intel® NetBurst™ Microarchitecture	■ The foundation of the Intel® Xeon™ and the Intel® Pentium® 4 processors delivers new levels of performance at frequencies up to 3.06 GHz
Rapid Execution Engine	■ 2x clock speed for integer computations, providing increased performance for Web and database servers
Streaming SIMD Extensions – 2 (SSE2)	■ 144 new instructions improve response times for media servers, secure transactions and next-generation Web services
Hyper-Threading Technology	■ Increases the number of transactions that can be processed for the enterprise ■ Enables support for more users, improving business productivity ■ Provides faster response times for many Internet and e-Business applications, enhancing your customer's experience
533 MHz System Bus	■ System bus bandwidth now up to 4.3 GB/s for rapid throughput of data
Level 2 Advanced Transfer Cache (512KB)	■ Tightly synchronized with the L1 cache and Rapid Execution Engine, for fast access times for server data
Level 1 Execution Trace Cache	■ Improves throughput and reduces latency ■ Provides innovative cache access techniques, reducing access latency for the Rapid Execution Engine

For More Information

Contact your Intel® products representative to discover how Intel® Xeon™ processor-based servers can enhance your business productivity.

Or, visit the Intel® Business Computing site at:

<http://www.intel.com/eBusiness/products/server>

For information about Intel® e-Business products and technologies, visit:

<http://www.intel.com/eBusiness>



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The Intel® Xeon™ processor and/or the Intel® E7501 chipset may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Such errata are not covered by Intel's warranty. Current characterized errata are available on request.

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0203/HB03-019/SE/PDF

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